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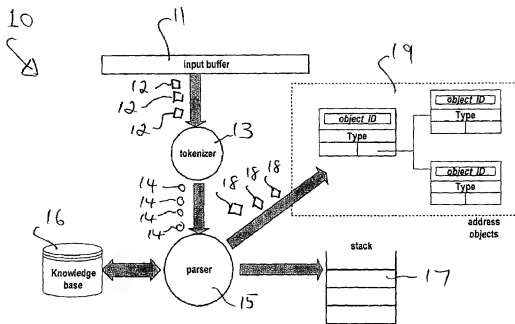


Figure 1. The conceptual parsing architecture.

Input buffer: the data structure that contains the character string to be parsed.  
We assume the characters are encoded by UNICODE.

FIG. 1

09083123-061501

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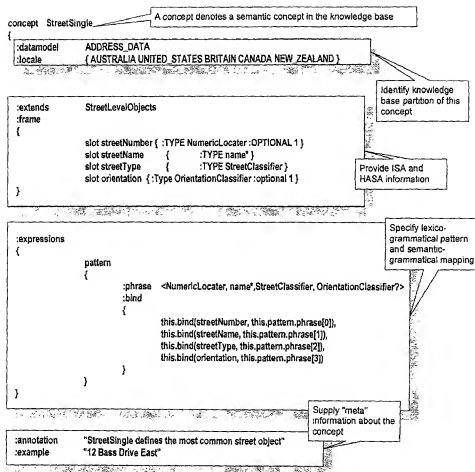


FIG. 2

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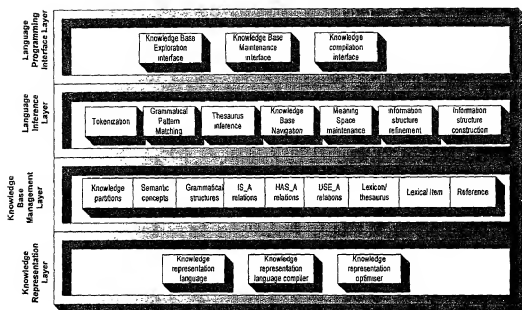


FIG. 3

0903123.051501

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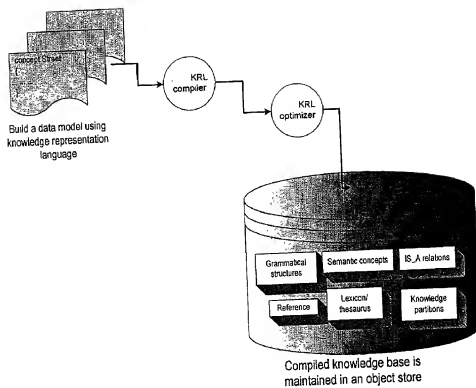


FIG. 4

09803123 061501

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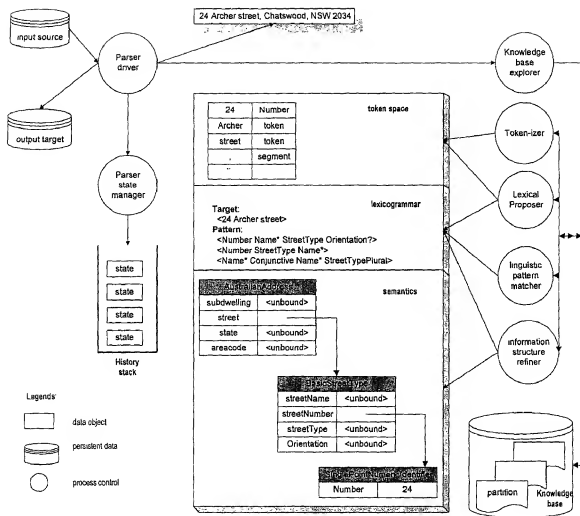


FIG. 5

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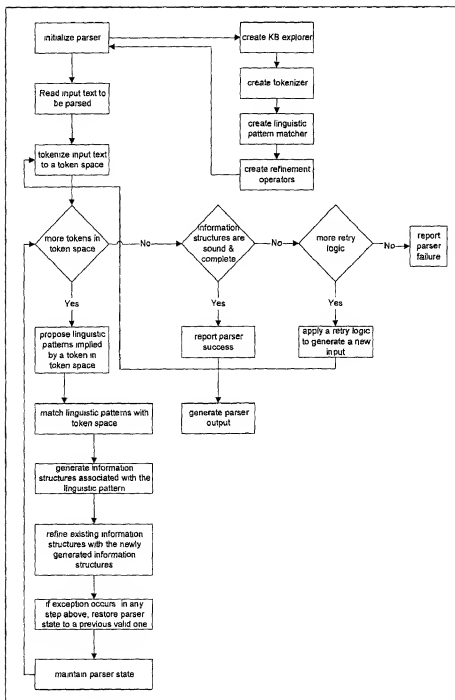


FIG. 6

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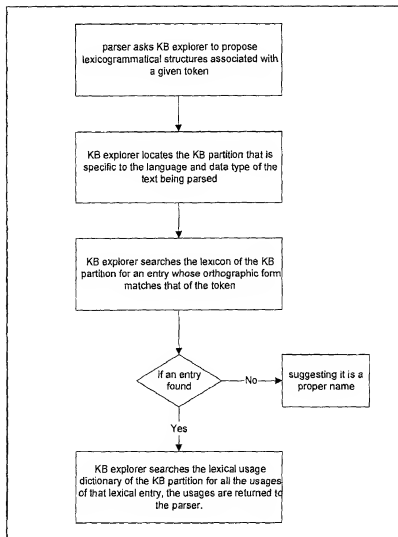


FIG. 7

09083123.051501

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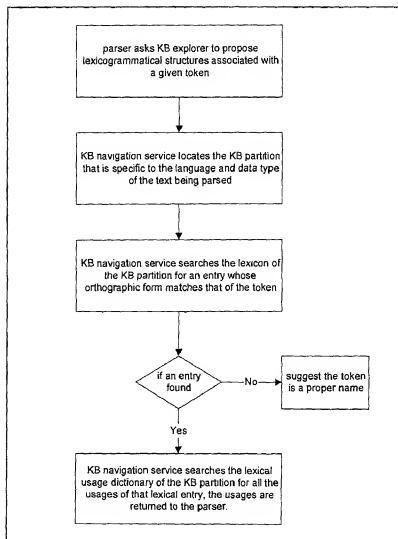


FIG. 8

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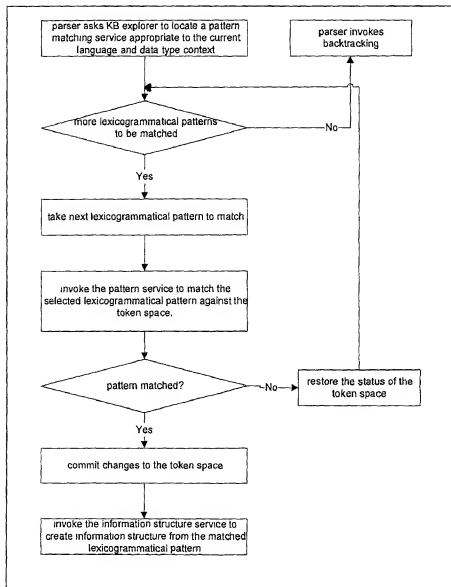


FIG. 9

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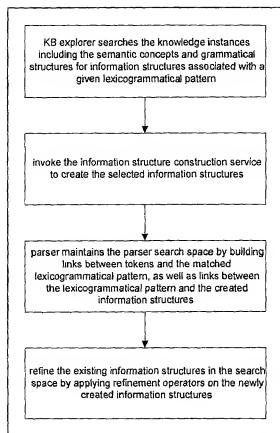


FIG. 10

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Example address: unit 6, 22 Fontenoy road, ...

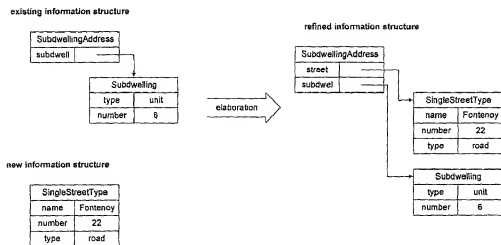


FIG. 11

0903127.061501

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Example address. Fontenoy road and Curzon street, ...

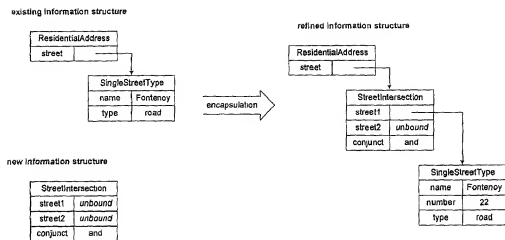


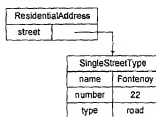
FIG. 12

09803123-061501

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Example address 22 Fontenoy road, Ryde, NSW 2113

existing information structure



refined information structure

ResidentialAddress	
street	
state	NSW
areacode	2113
area	Ryde

enhancement

new information structure

AustralianAddress	
state	NSW
areacode	2113
area	Ryde

SingleStreetType	
name	Fontenoy
number	22
type	road

FIG. 13

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Example address, unit 6, ...

existing information structure

new information structure

Subdwelling	
type	unit
number	6

entailment

refined information structure

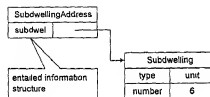


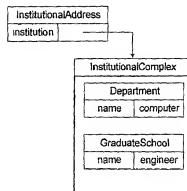
FIG. 14

09883123.061501

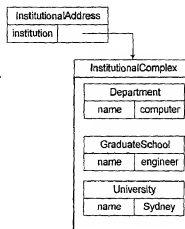
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Example address: Dept. of computer science, school of engineering, Univ. of Sydney, ... ..

existing information structure



refined information structure



extension

new information structure

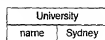


FIG. 15

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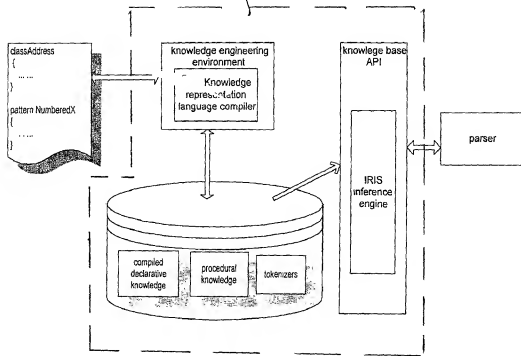


FIG. 16

0983123-061501



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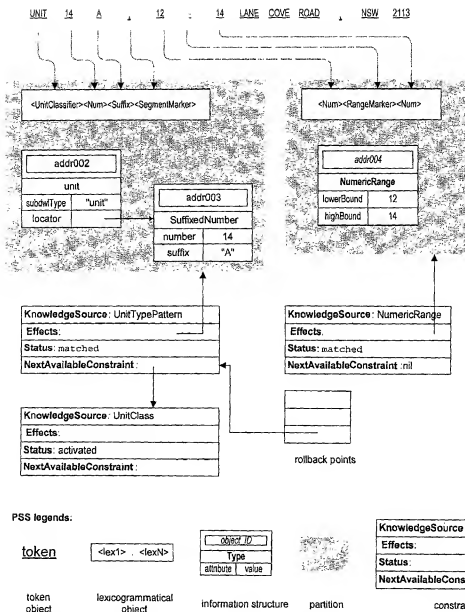


FIG. 17

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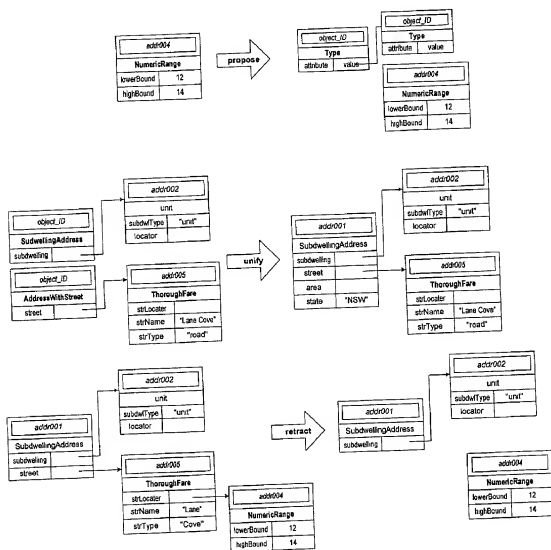


FIG. 18

094-061507

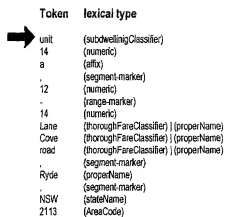
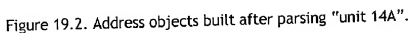


Figure 19.1 Initial state of parsing.

FIG. 19.1

098231



**FIG. 19.2**

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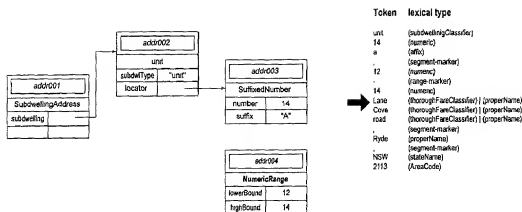
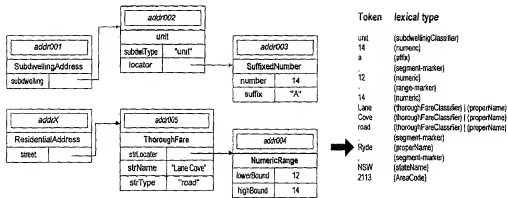


Figure 19.3. Temporary information structure held in stack.

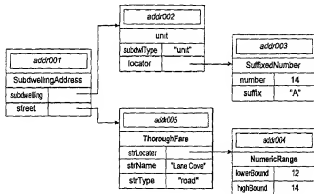
FIG. 19.3

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(a) a ThoroughFare object is created and a ResidentialAddress object addrX is inferred.



(b) addrX is unified with the existing addr001 object, elaborating the structure of the latter

Figure 19.4. Information structure obtained after parsing "12-14 Lane Cove Road".

FIG. 19.4

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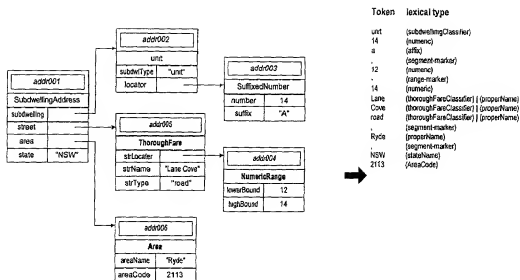


Figure 19.5. The final address information structure.

FIG. 19.5

09083123 "06-1501